

**To:** lsmith@mwdh2o.com[lsmith@mwdh2o.com]; Holland, Matthew@Waterboards[Matthew.Holland@waterboards.ca.gov]  
**Cc:** Ballard, Adam@Wildlife[Adam.Ballard@wildlife.ca.gov]; Bartolomeo, Eleanor@Waterboards[Eleanor.Bartolomeo@waterboards.ca.gov]; Cantrell, Scott@Wildlife[Scott.Cantrell@wildlife.ca.gov]; Guy, David@norcalwater.org[dguy@norcalwater.org]; dsereno@ccwater.com[dsereno@ccwater.com]; Foresman, Erin[Foresman.Erin@epa.gov]; bobker@bay.org[bobker@bay.org]; jon.tbi@gmail.com[jon.tbi@gmail.com]; dornl@sacsewer.com[dornl@sacsewer.com]; Mussen, Tim@sacsewer.com[mussent@sacsewer.com]; Nader-Tehrani, Parviz@DWR[Parviz.Nader-Tehrani@water.ca.gov]; Riddle, Diane@Waterboards[Diane.Riddle@waterboards.ca.gov]; Roddam, Meiling@DeltaCouncil[Meiling.Roddam@deltacouncil.ca.gov]; Fujii, Roger[rfujii@usgs.gov]; Satkowski, Rich@Waterboards[Rich.Satkowski@waterboards.ca.gov]; Azimi-Gaylon, Shakoora@SSJDC[Shakoora.Azimi-Gaylon@deltaconservancy.ca.gov]; Fong, S@SFCWA[sfong@sfcwa.org]; Vendlinski, Tim[vendlinski.tim@epa.gov]; tmanley@norcalwater.org[tmanley@norcalwater.org]; lsmith@mwdh2o.com[lsmith@mwdh2o.com]  
**From:** Harader, Sam@DeltaCouncil  
**Sent:** Mon 3/10/2014 3:33:15 PM  
**Subject:** RE: Interior Delta Flows and related Stressors Workshop Planning Group Meeting

Lynda,

I am going to respectfully disagree with your paragraph about OMR and whether or not it should be considered by the SWRCB as part of this process. 1) All of the State Water Board's current objectives that regulate flows within the Delta are in their "Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta Estuary" 2) this water quality control plan includes Rare, Threatened, or Endangered Species (RARE) as a beneficial use, and 3) this workshop is about the science behind interior Delta flows and should consider the science that is the basis for OMR. -Sam

**From:** Smith, Lynda A [mailto:lsmith@mwdh2o.com]  
**Sent:** Friday, March 07, 2014 5:48 PM  
**To:** Holland, Matthew@Waterboards; Harader, Sam@DeltaCouncil  
**Cc:** Ballard, Adam@Wildlife; Bartolomeo, Eleanor@Waterboards; Cantrell, Scott@Wildlife; Guy, David@norcalwater.org; dsereno@ccwater.com; Foresman, Erin@epa; bobker@bay.org; Harader, Sam@DeltaCouncil; jon.tbi@gmail.com; dornl@sacsewer.com; Mussen, Tim@sacsewer.com; Nader-Tehrani, Parviz@DWR; Riddle, Diane@Waterboards; Roddam, Meiling@DeltaCouncil; Fujii, Roger; Satkowski, Rich@Waterboards; Azimi-Gaylon, Shakoora@SSJDC; Fong, S@SFCWA; vendlinski.tim@epa.gov; tmanley@norcalwater.org; lsmith@mwdh2o.com  
**Subject:** RE: Interior Delta Flows and related Stressors Workshop Planning Group Meeting

Hi everyone,

Attached are the Public Water Agencies' (PWA) comments on the proposed panel questions and reading list for the Delta Interior flows and Related Stressors Panel. I am still working on comments on the presenters list, and will forward those early next week.

With regard to the scope of this panel and whether or not food web issues should be included in the topics and questions the panel will consider, we respectfully disagree with previous comments by Jon and Sam. While we agree we should not revisit specific questions covered by the Delta Outflows Panel, food web issues are not a concern unique to the western Delta. In evaluating species and the ecosystem health, productivity is a central issue. The prior panel considered productivity in the western Delta, but not in the north, central, or southern Delta. Productivity is more than an issue of potential losses to entrainment; it also includes changes in species composition, increases in *Microcystis* and its toxic effect on species, *Egeria*/hyacinth and its effect on fish habitat, floodplain productivity, toxic effects of contaminants and effluent on productivity, and inquiries as to why productivity is better in Cache Slough as compared to elsewhere.

For the draft panel questions, we are suggesting several revisions to remove vague words and phrases, and to present the questions in a more neutral tone. We have also added a question at the beginning and made other changes to put the topic of interior Delta flows in proper perspective. The goal of restoration is to create conditions that more closely represent the environment within which the native fish evolved. There needs to be an understanding of historic hydrodynamics and how the various functions of flow serve the species. It is within this context that further changes to hydrodynamics should be discussed.

The PWAs also believe it is important to focus the panel on hydrodynamic issues that are associated to the SWRCB's water quality authority. OMR is a metric for estimating entrainment in the SWP-CVP. It is not an issue of water quality. Entrainment is managed and permitted through the fishery agencies' section 7 authority and not by the SWRCB.

For the reading list, we have added references that are relevant to the panel questions, including salmon references, and we generally agree with the changes Sam had already made to the reading list. We can provide electronic copies of the added references on Monday.

Have a good weekend.

Thanks,

Lynda

Lynda Smith  
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Bay-Delta Program Initiatives  
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**From:** Holland, Matthew@Waterboards [<mailto:Matthew.Holland@waterboards.ca.gov>]  
**Sent:** Thursday, March 06, 2014 9:36 AM  
**To:** Harader, Sam@DeltaCouncil  
**Cc:** Ballard, Adam@Wildlife; Bartolomeo, Eleanor@Waterboards; Cantrell, Scott@Wildlife; Guy, [David@norcalwater.org](mailto:David@norcalwater.org); [dsereno@ccwater.com](mailto:dsereno@ccwater.com); Foresman, Erin@epa; [bobker@bay.org](mailto:bobker@bay.org); Harader, Sam@DeltaCouncil; [jon.tbi@gmail.com](mailto:jon.tbi@gmail.com); [dornl@sacsewer.com](mailto:dornl@sacsewer.com); Smith, Lynda A; Holland, Matthew@Waterboards; Mussen, [Tim@sacsewer.com](mailto:Tim@sacsewer.com); Nader-Tehrani, Parviz@DWR; Riddle, Diane@Waterboards; Roddam, Meiling@DeltaCouncil; Fujii, Roger; Satkowski, Rich@Waterboards; Azimi-Gaylon, Shakoora@SSJDC; Fong, S@SFCWA; [vendlinski.tim@epa.gov](mailto:vendlinski.tim@epa.gov); [tmanley@norcalwater.org](mailto:tmanley@norcalwater.org)  
**Subject:** RE: Interior Delta Flows and related Stressors Workshop Planning Group Meeting

Dear Colleagues,

My email address was entered incorrectly in the original message for this thread. It would help if you reply-all to this message when you provide your feedback to the group.

Best,

Matt

**From:** Harader, Sam@DeltaCouncil [<mailto:sam.harader@deltacouncil.ca.gov>]  
**Sent:** Thursday, March 06, 2014 7:47 AM  
**To:** Holland, Matthew@Waterboards  
**Subject:** FW: Interior Delta Flows and related Stressors Workshop Planning Group Meeting

Matt,

Jon had your email wrong and I proliferated the error. -Sam

Jon,

My thinking exactly. We do not need to revisit the issues of food web effects on western Delta productivity. We should cover the issues of retention time and productivity loss due to entrainment. -Sam

**From:** Jon Rosenfield, Ph.D. [<mailto:jon.tbi@gmail.com>]

**Sent:** Wednesday, March 05, 2014 4:26 PM

**To:** Roddam, Meiling@DeltaCouncil

**Cc:** Bartolomeo, Eleanor@Waterboards; Ballard, Adam@Wildlife; Cantrell, Scott@Wildlife; Guy, David@norcalwater.org; dsereno@ccwater.com; Foresman, Erin@epa; bobker@bay.org; dornl@sacsewer.com; Mussen, Tim@sacsewer.com; Nader-Tehrani, Parviz@DWR; Riddle, Diane@Waterboards; Fujii, Roger; Satkowski, Rich@Waterboards; Azimi-Gaylon, Shakoora@SSJDC; vendlinski.tim@epa.gov; tmanley@norcalwater.org; lsmith@mwdh2o.com; Harader, Sam@DeltaCouncil; mattew.holland@waterboards.ca.gov

**Subject:** Re: Interior Delta Flows and related Stressors Workshop Planning Group Meeting

Hi

Attached are our suggested amendments and modifications to the panel charge language, reading list, and folks who ought to be invited to present during the Interior Delta Flows workshop.

Also, there was a discussion yesterday re: whether "food web" issues ought to be (or already are) part of these workshops. My understanding from the charges given to this science panel and the previous one suggest an important distinction: whereas the last panel heard extensive testimony re: things that impact the productivity of the pelagic food web in the area west of the Delta (i.e. having to do with Delta outflow), this panel will be focussed on factors that affect food web production in the Delta *that are not redundant of topics covered in the outflow workshop*. For this panel, viable discussions of food web productivity would include: physical entrainment of primary or secondary productivity and the effect of hydrodynamics (e.g. via retention time) on productivity. Nutrient, contaminant, invasive clams, and volume/timing of flow would not be on

the table for this workshop, not because they are not important, but because the material was covered before the last panel.

Does this distinction make sense? if so, then the attached reading list, panel charge recommendations, and invite list is what we would recommend. If that distinction doesn't represent the intent of this workshop, then we'd want to revise our suggestions to include other topics not included here (e.g. dissolved oxygen levels in the south delta).

Please let us know the intent of the panel's charge around the point of productivity (primary and secondary).

Thanks,

JR

On Mon, Mar 3, 2014 at 4:00 PM, Roddam, Meiling@DeltaCouncil  
<[Meiling.Roddam@deltacouncil.ca.gov](mailto:Meiling.Roddam@deltacouncil.ca.gov)> wrote:

Hello all,  
Attached are the materials (agenda, critical questions, and panel list) for tomorrows Interior Flows Workshop Planning meeting.  
Thanks,

Meiling Roddam  
CA Sea Grant State Fellow  
Delta Science Program  
Delta Stewardship Council  
(916)445-0782

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Jon Rosenfield, Ph.D.  
Interim Director, Rivers and Delta Program  
& Conservation Biologist

The Bay Institute  
510 684 4757

--"Unless ...."

Help me protect San Francisco Bay and its watershed: <http://www.crowdrise.com/Jonrosenfield>

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